

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Rieko FURUKAWA, et al.  
SERIAL NO: New Application  
FILED: Herewith  
FOR: VIDEO ENCODING APPARATUS AND METHOD

GAU:  
EXAMINER:



INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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**STATEMENT OF RELEVANCY**

**Reference AO (10-304372) on Form PTO-1449:**

A 2-pass encoding apparatus. After encoding a video stream at the constant quantization parameter and checking its data size, it encodes again according to the optimum bitrate for each scene.

**Reference AP (11-177989) on Form PTO-1449:**

This encoding apparatus has similar 2-pass encoding method, but it's for a constant framerate encoding.

**Reference AQ (10-336641) on Form PTO-1449:**

It detects scene changes and fade in/out scenes of a video stream, and it determines the optimum bitrate for each scene, especially allocates many bits for fade in/out scenes.

### **LIST OF RELATED CASES**

| <u>Docket Number</u> | <u>Serial or<br/>Patent No.</u> | <u>Filing or<br/>Issue Date</u> | <u>Status<br/>or Patentee</u> |
|----------------------|---------------------------------|---------------------------------|-------------------------------|
| 197008US2 SRD        | 09/655,452                      | 09/05/00                        | PENDING                       |

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
202461US2SRDSERIAL NO.  
New Application

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Rieko FURUKAWA, et al.

FILING DATE  
HerewithGROUP  
2613

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
|                     | AA |                    |      |      |       |              |                               |
|                     | AB |                    |      |      |       |              |                               |
|                     | AC |                    |      |      |       |              |                               |
|                     | AD |                    |      |      |       |              |                               |
|                     | AE |                    |      |      |       |              |                               |
|                     | AF |                    |      |      |       |              |                               |
|                     | AG |                    |      |      |       |              |                               |
|                     | AH |                    |      |      |       |              |                               |
|                     | AI |                    |      |      |       |              |                               |
|                     | AJ |                    |      |      |       |              |                               |
|                     | AK |                    |      |      |       |              |                               |
|                     | AL |                    |      |      |       |              |                               |
|                     | AM |                    |      |      |       |              |                               |
|                     | AN |                    |      |      |       |              |                               |

## FOREIGN PATENT DOCUMENTS

|    |    | DOCUMENT<br>NUMBER | DATE     | COUNTRY | TRANSLATION<br>YES NO |   |
|----|----|--------------------|----------|---------|-----------------------|---|
| AR | AO | 10-304372          | 11/13/98 | Japan   |                       | x |
| AR | AP | 11-177989          | 07/02/99 | Japan   |                       | x |
| AR | AQ | 10-336641          | 12/18/98 | Japan   |                       | x |
|    | AR |                    |          |         |                       |   |
|    | AS |                    |          |         |                       |   |
|    | AT |                    |          |         |                       |   |
|    | AU |                    |          |         |                       |   |
|    | AV |                    |          |         |                       |   |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |  |
|--|----|--|
|  | AW |  |
|  | AX |  |
|  | AY |  |
|  | AZ |  |

Examiner A. Rao

Date Considered 11/25/03

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.